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L11	2	(address near2 boundar\$4) same reassign\$4	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/11/06 19:10
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1 **A kernel-based learning approach to ad hoc sensor network localization**



Xuanlong Nguyen, Michael I. Jordan, Bruno Sinopoli

August 2005 **ACM Transactions on Sensor Networks (TOSN)**, Volume 1 Issue 1

**Publisher:** ACM Press

Full text available: pdf(743.41 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

We show that the coarse-grained and fine-grained localization problems for ad hoc sensor networks can be posed and solved as a pattern recognition problem using kernel methods from statistical learning theory. This stems from an observation that the kernel function, which is a similarity measure critical to the effectiveness of a kernel-based learning algorithm, can be naturally defined in terms of the matrix of signal strengths received by the sensors. Thus we work in the natural coordinate sys ...

**Keywords:** Ad hoc wireless sensor networks, kernel methods, localization, position estimation, statistical machine learning

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### 1 [Embedded systems: applications, solutions and techniques \(EMBS\): A fast start-up technique for flash memory based computing systems](#)



Keun Soo Yim, Jihong Kim, Kern Koh

March 2005 **Proceedings of the 2005 ACM symposium on Applied computing**

Publisher: ACM Press

Full text available: [pdf\(324.29 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Flash memory based embedded computing systems are becoming increasingly prevalent. These systems typically have to provide an instant start-up time. However, we observe that mounting a file system for flash memory takes 1 to 25 seconds mainly depending on the flash capacity. Since the flash chip capacity is doubled in every year, this mounting time will soon become the most dominant reason of the delay of system start-up time. Therefore, in this paper, we present instant mounting techniques for ...

**Keywords:** fast booting, fast mounting, flash memory, metadata snapshot

### 2 [System architecture directions for networked sensors](#)



Jason Hill, Robert Szewczyk, Alec Woo, Seth Hollar, David Culler, Kristofer Pister

 November 2000 **ACM SIGOPS Operating Systems Review , ACM SIGARCH Computer Architecture News , Proceedings of the ninth international conference on Architectural support for programming languages and operating systems ASPLOS-IX**, Volume 34 , 28 Issue 5 , 5

Publisher: ACM Press

Full text available: [pdf\(299.01 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Technological progress in integrated, low-power, CMOS communication devices and sensors makes a rich design space of networked sensors viable. They can be deeply embedded in the physical world and spread throughout our environment like smart dust. The missing elements are an overall system architecture and a methodology for systematic advance. To this end, we identify key requirements, develop a small device that is representative of the class, design a tiny event-driven operating system, and sh ...

### 3 [System architecture directions for networked sensors](#)



Jason Hill, Robert Szewczyk, Alec Woo, Seth Hollar, David Culler, Kristofer Pister

November 2000 **ACM SIGPLAN Notices**, Volume 35 Issue 11

**Publisher:** ACM Press

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